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Section 6 - Summary

FEB 1 2 2003

510(k) Summary

"This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21CFR 807.92"

"The assigned 510(k) number is: <u>ドルカ399ナー</u>"

Introduction

According to the requirements of 21 CFR 862.3240, the following information provides sufficient details to understand the basis of

a determination of substantial equivalence.

6-1 Submitter Name, Address, Contact Wiener Laboratorios S.A.I.C.

Riobamba 2944

2000 - Rosario - Argentina

Tel: 54 341 4329191 Fax: 54 341 4851986

Contact person: Viviana Cétola Date Prepared: September 02, 2002

6-2 Device Name

Proprietary name: Wiener lab. Colinesterasa AA. Common name: Cholinesterase test system.

Classification name: Colorimetry, Cholinesterase.

Device Class I

6-3 Predicate Device

We claim substantial equivalence to the currently marketed SIGMA DIAGNOSTICS Cholinesterase (BTC) (Cat. 421-10).

6-4 Device Description

Kinetic Method.

The principle is based on the following reaction system: Cholinesterase

Butyrylthiocholine + H₂O

→ Thiocholine + Butyrate

Thiocholine + DTNB → 2-Nitro-5-Mercapto-benzoate

The cholinesterase activity is determined by measuring the rate of absorbance change at 405 nm.

DTNB: 5.5'-Dithiobis-2-Nitrobenzoic Acid. ChE: serum or plasma cholinesterase.

6-5 Intended Use

The WIENER LAB. Colinesterasa AA test system is a quantitative in vitro diagnostic device intended to be used in the quantitative determination of cholinesterase (an enzyme that catalyzes the hydrolysis of acetylcholine to choline) in human specimens, on both manual and automated systems. There are two principal types of cholinesterase in human tissues. True cholinesterase is present at nerve endings and in erythrocytes (red blood cells) but is not present in plasma. Pseudo cholinesterase is present in plasma and liver but is not present in erythrocytes. Measurements obtained by this device are used in the diagnosis and treatment of cholinesterase inhibition disorders (e.g., insecticide poisoning and succinylcholine poisoning).

and Differences

6-6 Equivalencies The WIENER LAB. Colinesterasa AA test system is substantially equivalent to other products in commercial distribution intended for similar use. Most notably it is substantially equivalent to the currently marketed SIGMA DIAGNOSTICS Cholinesterase (BTC) test system.

> The following table illustrates the similarities and differences between the WIENER LAB. Colinesterasa AA test system and the currently marketed SIGMA DIAGNOSTICS Cholinesterase (BTC) test system.

	Cholinesterase (BTC)	Colinesterasa AA	
Intended Use	kinetic determination of	Kinetic method at 405 nm for the determination of cholinesterase in serum or plasma.	
Test Principle	Kinetic Method. The principle is based on the following reaction system: Cholinesterase Butyrylthiocholine + H ₂ O Thiocholine + DTNB Thiocholine + DTNB		
	DTNB: 5,5′-Dithiobis-2-Nitrobenzoic Acid. ChE: serum or plasma cholinesterase.		
Reagents	Cholinesterase (BTC) Reagent: Butyrylthiocho- line iodide – DTNB – Buffer.	Reagent 1: DTNB – Phosphate buffer. Reagent 2: Butyrylthiocholine. Diluent 1 and 2: aqueous solution.	
Preparation of Working Reagent	Reconstitute Cholinesterase (BTC) Reagent with indicated volume of deionized water	Reconstitute each Reagent 1 and 2 vial with stated volume of Diluent 1 and 2 respectively.	
Wavelength of Reading	405 nm		
Linearity	13000 U/l for a Sample/Reagent Ratio 1:300	17000 U/I	
Continued on next page			

	Cholinesterase (BTC)	Colinesterasa AA
Expected values	3200 – 7700 U/l at 30°C	Children, men and women over 40 years old: 5500 - 13400 U/I (37°C) Women between 16 - 39 years old, non pregnant and not ingesting oral contraceptives: 4400 - 11700 U/I (37°C) Women between 18 - 41 years old, pregnant or ingesting oral contraceptives: 3800 - 9500 U/I (37°C)
Within-run precision	Normal Level Serum: CV = 2.0% High Level Serum: CV = 1.8%	Normal Level Serum: CV = 1.41% High Level Serum: CV = 0.97%
Total precision	Normal Level Serum: CV = 4.2% High Level Serum: CV = 2.6%	Normal Level Serum: CV = 2.00% High Level Serum: CV = 1.97%

6-7 Conclusion Above mentioned data show substantial equivalency to the predicate device.







Food and Drug Administration 2098 Gaither Road Rockville MD 20850

FFB 1 2 2003

Dr, Viviana Cetola QC/QA Manager Weiner Laboratorios S.A.I.C. Riobamba 2944 Rosario, Santa Fe Argentina 2000

Re:

k023992

Trade/Device Name: Wiener Lab. Colinesterasa AA

Regulation Number: 21 CFR 862.3240

Regulation Name: Cholinesterase test system

Regulatory Class: Class I Product Code: DIH Dated: January 20, 2003 Received: January 22, 2003

Dear Dr. Cetola:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820).

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific information about the application of labeling requirements to your device, or questions on the promotion and advertising of your device, please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (301) 594-3084. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html.

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Office of In Vitro Diagnostic Device

Steven Butman

Evaluation and Safety

Center for Devices and

Radiological Health

Enclósure

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510(k) Number (if known): KO	23992	
Device Name: Wiener lab.	-	
Colinestoraca	AA	
Indications For Use:		
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diagnostic device intended to of cholinesterase (an en acetylcholine to choline) in and automated systems cholinesterase in human to nerve endings and in erythroplasma. Pseudo cholinester present in erythrocytes. Mused in the diagnosis ar	to be used in azyme that of human serur in There are issues. True cocytes (red blaces is presented treatments and treatments	the quantitative determination catalyzes the hydrolysis of mor plasma, on both manual e two principal types of cholinesterase is present at cood cells) but is not present in the plasma and liver but is not obtained by this device are of cholinesterase inhibition and succinylcholine poisoning).
(PLEASE DO NOT WRITE BELOW T	HIS LINE-CONTIN	JE ON ANO THER PAGE IF NEEDED)
Concurrence of CD	RH, Office of De	vice Evaluation (ODE)
	Sign-Off) of Clinical Laboratory	Devices
Prescription Use V	OR	Over-The-Counter Use
(Per 21 CFR 801.109)		(Ontional Format 1-2-96)

(Optional Format 1-2-96)